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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/652,589	08/29/2003	Russell W. White	1030-0001	. 9154
34456 7590 11/28/2007 LARSON NEWMAN ABEL POLANSKY & WHITE, LLP				INER
5914 WEST COURTYARD DRIVE			ANDERSON, CATHARINE L	
SUITE 200 AUSTIN, TX 7	8730		ART UNIT	PAPER NUMBER
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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		Application No.	Applicant(s)	
Office Action Summary		10/652,589	WHITE ET AL.	
		Examiner	Art Unit	.=
		C. Lynne Anderson	3761	
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet v	vith the correspondence address	
WHI(- Exte after - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.1: SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period vure to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUN 36(a). In no event, however, may a will apply and will expire SIX (6) MO , cause the application to become A	ICATION. reply be timely filed NTHS from the mailing date of this communication NBANDONED (35 U.S.C. § 133).	
Status				
2a)⊠	Since this application is in condition for allowar	action is non-final. nce except for formal ma	• •	is
	closed in accordance with the practice under E	x parte Quayle, 1935 C.	D. 11, 453 O.G. 213.	•
Disposit	ion of Claims			
5)□ 6)⊠ 7)□	Claim(s) 1-17,19,20,23,26-28 and 30-37 is/are 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 1-17,19,20,23,26-28 and 30-37 is/are Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	wn from consideration.	on.	
Applicat	ion Papers			
10)	The specification is objected to by the Examine The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Examine	epted or b) objected to drawing(s) be held in abeya ion is required if the drawin	nnce. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR 1.121	(d).
Priority (under 35 U.S.C. § 119			
12)□ a)	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau See the attached detailed Office action for a list	s have been received. s have been received in rity documents have bee u (PCT Rule 17.2(a)).	Application No n received in this National Stage	
Attachmer	• •	∧ □·	Summan (DTO 442)	
2) Notice 3) Infor	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) er No(s)/Mail Date	Paper No	Summary (PTO-413) o(s)/Mail Date Informal Patent Application	

10/652,589 Art Unit: 3761

DETAILED ACTION

Response to Arguments

Applicant's arguments with respect to claims 1-17, 19-20, 22-23, 26-28, and 30-37 have been considered but are most in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-6 and 33-37 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mark (US 2003/0060746) in view of Beaudry (2004/0267180), and further in view of D'Alessio et al. (6,595,940).

With respect to claims 1, 34, and 36-37, Mark discloses all aspects of the claimed invention with the exception of the first burstable membrane being configured to burst due to an increase in internal pressure, and markings identifying the location of the cavities. Mark discloses a self-contained substance application system, as shown in figure 3, comprising a support member 31 defining a first cavity and a second cavity. A first substance is located in the first cavity, and a second substance is located in the second cavity. A first burstable membrane 34 and second burstable membrane 35 enclose the cavities. An applicator 42 is attached to the support member, and conduit 39 indicated the location of the first cavity.

10/652,589

Art Unit: 3761

Beaudry teaches a substance application system having a burstable membrane encapsulating a substance. The membrane is burst by squeezing, as disclosed in paragraph [0023], which causes an increase in the internal pressure of the membrane, causing the membrane to burst. It would therefore be obvious to one of ordinary skill in the art at the time of invention to provide the application system of Mark with the burstable membrane of Beaudry, to obviate the need for glass materials in the application system of Mark.

D'Alessio teaches a substance application system having two distinct ends, as shown in figure 7. Each end is provided with a different color so the user can identify which end is which, as disclosed in column 6, line 65 to column 7, line 2. The different colors provide markings external to the substance cavity that identifies its location within the device. It would therefore be obvious to one of ordinary skill in the art at the time of invention to provide the substance application system of Mark with first and second markings in the form of different color ends, as taught by D'Alessio, to allow the user to identify the differences between the ends of the device.

With respect to claim 2, the support member 31 comprises a first support member 32 and a second support member 33, which each have an open end and a closed end, and are affixed to one another at their respective closed ends 36, as shown in figure 3.

With respect to claim 3, crimp 36 isolates the first and second cavities.

With respect to claim 4, Mark discloses all aspects of the claimed invention with the exception of the first caving having a larger volume than the second cavity. It would Art Unit: 3761

have been obvious to one of ordinary skill in the art at the time of invention to make one cavity larger than the other to allow for different amounts of medicament to be applied to the patient.

With respect to claim 5, the support member 31 has a linear configuration, as shown in figure 1. The support member 31 is tubular, as disclosed in paragraph [0024], and therefore has a circular cross section.

With respect to claim 6, the support member 31 defines a mouth of the first cavity at a first distal end, and a mouth of the second cavity at the second distal end, as shown in figure 3. A second applicator 41 is attached to the second mouth, and has a different appearance than the first applicator 42.

With respect to claims 33 and 35, D'Alessio discloses the first and second markings identify the use of each end of the device, as disclosed in column 6, line 65 to column 7, line 2, and therefore marks the identity of the contents of each cavity.

Claims 7-17, 19-20, 22-23, 26-28, and 30-32 are rejected under 35 U.S.C. 103(a) as being unpatentable over Crane (6,811,341) in view of Beaudry (2004/0267180), and further in view of D'Alessio et al. (6,595,940).

With respect to claim 7, Crane discloses all aspects of the claimed invention with the exception of the first burstable membrane being configured to burst due to an increase in internal pressure. Crane discloses a method of removing an application system from a package, operating a delivery mechanism to initiate release of a substance from a cavity by bursting the membrane of the cavity, releasing the

10/652,589

Art Unit: 3761

substance to a porous applicator tip, and applying the substance, as described in column 6, line 42, to column 7, line 5. The application system is single use and therefore discarded after use, as disclosed in column 5, lines 5-6.

Beaudry teaches a substance application system having a burstable membrane encapsulating a substance. The membrane is burst by squeezing, as disclosed in paragraph [0023], which causes an increase in the internal pressure of the membrane, causing the membrane to burst. It would therefore be obvious to one of ordinary skill in the art at the time of invention to provide the application system of Crane with the burstable membrane of Beaudry, to obviate the need for a plunger in the application system of Crane.

D'Alessio teaches a substance application system having two distinct ends, as shown in figure 7. Each end is provided with a different color so the user can identify which end is which, as disclosed in column 6, line 65 to column 7, line 2. The different colors provide markings external to the substance cavity that identifies its location within the device. It would therefore be obvious to one of ordinary skill in the art at the time of invention to provide the substance application system of Mark with first and second markings in the form of different color ends, as taught by D'Alessio, to allow the user to identify the differences between the ends of the device.

With respect to claim 8, Crane discloses all aspects of the claimed invention with the exception of squeezing the support member along a major axis to operate the deliver mechanism. D'Alessio teaches a substance application method involving squeezing the support member along a major axis to operate the delivery mechanism,

10/652,589

Art Unit: 3761

as described in column 7, lines 40-45 to provide a simple yet effective application system, as disclosed in column 4, lines 19-20. It would therefore be obvious to one of ordinary skill in the art at the time of invention to apply the substance of Crane by squeezing the support member, as taught by D'Alessio, to provide a simple yet effective application system.

With respect to claim 9, the support member is a tube, and therefore has a round cross section. A plunger is depressed to operate the delivery mechanism, as disclosed in column 6, lines 49-60.

With respect to claim 10, the substance is combined with an initiator to convert the monomer to a polymer, as disclosed in column 6, lines 61-65.

With respect to claim 11, Crane discloses all aspects of the claimed invention with the exception of a second applicator tip. D'Alessio teaches a second applicator tip for application of the second substance, as disclosed in column 8, lines 17-23. It would therefore be obvious to one of ordinary skill in the art at the time of invention to provide the support member of Crane with a second applicator tip, as taught by D'Alessio, to provide for separate application of the second substance.

With respect to claims 12, 17, and 32, Crane discloses all aspects of the claimed invention with the exception of an antiseptic agent. D'Alessio teaches an application system for applying cyanoacrylate to a patient, and discloses an initiator that comprises an antiseptic agent to promote healing of the wound site, as disclosed in column 11, lines 41-57. It would therefore be obvious to one of ordinary skill in the art at the time of

10/652,589 Art Unit: 3761

invention to provide the initiator of Crane with an antiseptic agent, as taught by D'Alessio, to promote healing of the wound site.

With respect to claim 13, Crane discloses a substance application system, as shown in figure 11, comprising a cavity formed from a support member 1008. The cavity contains a substance 1020 comprising a fast polymerizable liquid monomer, as disclosed in column 11, line 39. An expulsion orifice 1032 is configured to release the substance, and an applicator tip 1026 is configured for depositing an adhesive film on a surface.

With respect to claim 14, the fast polymerizable liquid monomer comprises cyanoacrylate, as disclosed in column 5, lines 30-40.

With respect to claim 15, a delivery mechanism 1006 initiates release of the contained substance by rupturing a burstable membrane 1022, 1024, as shown in figure 11.

With respect to claim 16, a second cavity is provided comprising a second substance 1030, the second substance being different from the first substance, as disclosed in column 11, lines 43-44.

With respect to claim 19, the method comprises locating first and second substances and attaching an applicator to the support member, as disclosed in column 6, lines 28-39.

With respect to claim 20, the opening of the first cavity is enclosed by a burstable member 1024, as shown in figure 11.

10/652,589 Art Unit: 3761

With respect to claim 22, the support member and attached applicator are sealed in a container, as shown in figure 10.

With respect to claim 23, the support member is a tube, and therefore has a round cross section. The support member partially defines the first and second cavities, as shown in figure 11.

With respect to claim 26, the support member has a long axis, as shown in figure 11, and is a tube, which has an elliptical cross section.

With respect to claim 27, the first substance comprises a polymerizible liquid monomer, which is associated with an initiator, as disclosed in column 6, lines 61-65.

With respect to claim 28, a burstable seal 1022 keeps the first substance in the first cavity, as shown in figure 11. A package contains the support member, protecting it from contamination, as disclosed in column 10, lines 33-35.

With respect to claim 29, an indicator, first end 1032, identifies the location of the first cavity 1002, as shown in figure 11.

With respect to claim 30, a second seal 1012 keeps the second substance in the second cavity, as shown in figure 11. A sterile applicator 1026 is attached to the support member 1008.

With respect to claim 31, a plurality of packages are contained in a box, as disclosed in column 10, lines 33-35.

10/652,589

Art Unit: 3761

Claim 18 is rejected under 35 U.S.C. 103(a) as being unpatentable over Crane (6,811,341) in view of Beaudry (2004/0267180) and D'Alessio et al. (6,595,940), and further in view of Mark (US 2003/0060746).

Crane, as modified by Beaudry and D'Alessio, discloses all aspects of the claimed invention with the exception of the applicator tip being cotton. Crane discloses the support member comprises plastic, as described in column 10, lines 55-56. Mark teaches an application system having a cotton applicator tip, as described in paragraph [0023], as a suitable material for applying a treatment material to a wound. It would therefore be obvious to one of ordinary skill in the art at the time of invention to make the applicator tip of Crane of cotton, as taught by Mark, to provide a suitable material for applying a treatment material to a wound.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

10/652,589

Art Unit: 3761

Page 10

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to C. Lynne Anderson whose telephone number is (571)

272-4932. The examiner can normally be reached on Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Tanya Zalukaeva can be reached on (571) 272-1115. The fax phone

number for the organization where this application or proceeding is assigned is 571-

273-8300.

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cla

November 21, 2007

TATYANA ZALUKAEVA